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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/823,389	04/13/2004	Christopher M. Fang-Yen	MAIT-003AX	3371	
207	7590 09/28/2006		EXAMINER		
	TEN, SCHURGIN, GAG	CONNOLLY, PATRICK J			
TEN POST O BOSTON, M	FFICE SQUARE A 02109	ART UNIT	PAPER NUMBER		
,			2877		
			DATE MAILED: 09/28/2000	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	tion No.	Applicant(s)				
Office Action Summary			389	FANG-YEN ET AL.				
			er	Art Unit				
		Patrick .	J. Connolly	2877				
	The MAILING DATE of this commun	ication appears on t	he cover sheet with the d	correspondence add	ress			
Period fo	• •							
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum state to reply within the set or extended period for reply reply received by the Office later than three months are departed term adjustment. See 37 CFR 1.704(b).	IAILING DATE OF of 37 CFR 1.136(a). In no nunication. atutory period will apply and will, by statute, cause the a	THIS COMMUNICATION event, however, may a reply be tir will expire SIX (6) MONTHS from application to become ABANDONE	N. nely filed the mailing date of this come () (35 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) file	ed on 03 February 2	2005					
	• •	2b) ⊠ This action is						
<i>'</i> —								
,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims	•	. , . ,					
	Claim(s) <u>1-56</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
	6) Claim(s) is/are allowed.							
	Claim(s) is/are rejected. Claim(s) is/are objected to.							
	Claim(s) <u>1-56</u> are subject to restricti	on and/or election r	equirement.					
	on Papers		- q					
_	•							
_	The specification is objected to by the							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
11)[_]	The oath or declaration is objected to	b by the Examiner.	Note the attached Office	Action or form PTC	D-152.			
Priority u	ınder 35 U.S.C. § 119							
	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority)-(d) or (f).				
				ion No				
	2. Certified copies of the priority3. Copies of the certified copies		• •		tage			
	application from the Internation			eu in uns Nauonai S	nage			
* 5	See the attached detailed Office action	•	, ,,	ed.				
Attachmen	, ,							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date								
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application								
Paper No(s)/Mail Date 6) Other:								

Election/Restrictions

This application contains claims directed to the following patentably distinct species: a heterodyned phase measuring interferometer corresponding to claims 1-7 and 52-56, as depicted in Figure 1; a phase measuring interferometer including lock phase time evolution, corresponding to claims 8-11 as depicted in Figure 12; a heterodyned pulse-based phase measuring interferometer, corresponding to claims 12-20 and 34-46 as depicted in Figure 19; an imaging system based on heterodyning and spatial component analysis, corresponding to claims 21-33 as depicted in Figure 56; and a fiber probe, corresponding to claims 47-51, as depicted in Figure 43. The species are independent or distinct because they have different modes of operation and design, as well as having different effects.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, none are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103 (a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick J. Connolly whose telephone number is 571.272.2412. The examiner can normally be reached on 9:00 am - 7:00 pm Monday-Thursday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J. Toatley, Jr. can be reached on 571.272.2800 ext. 77. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Patrick Connolly 99.19. 2006